

AGRICULTURAL INTERESTS

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DEVELOPING THE HEIFER—I.

PROF. J. A. MCLEAN.

Dept. Animal Husbandry Mass. State Agri. College.

Improvement in the dairy can be achieved only by raising and developing heifers into cows that are superior to their mothers. The proper selection of the sire is one of the greatest influences in the improvement of the herd, but of equal importance is the growing and developing of the young things after they are born, for the best bred calf may develop into a scrub cow if it receives scrub treatment.

Granting that the calf is born right, due care must be taken particularly during its first three months. For the first twenty-four hours, let it suck its mother. This is better for both the cow and the calf. After the first day remove the youngster from its mother and for at least ten days feed upon whole milk. If the calf is doing well at the end of that time skim milk may gradually be substituted for the whole milk, till by the end of three weeks the calf is entirely on skim milk. As soon as the calf will begin to eat grain feed a mixture bran, corn and crushed oats mixed in equal parts by weight allowing it to have as much as it will clean up twice a day. The skim milk should be continued until six months of age, although the amount should never greatly exceed fifteen pounds per day.

Develop Digestive Capacity.
At about six weeks of age calves generally begin to eat roughage, and it is very important to furnish them with as much roughage of excellent quality as they will clean up. Hay or grass is necessary for the proper development of the calf. We want our dairy cows to have great digestive capacity; to get this they must begin early to eat good hay. There is no better hay than alfalfa of high quality. Where it is not obtainable mixed clover hay or rowen will be found most excellent. The above feeds add healthful conditions such as comfort, moderately warm quarters, fresh air, cleanliness, sunlight (clean feed pails and feed troughs or buckets are absolutely essential) and exercising opportunities and at the end of six months the heifer should have made an excellent start. Most calves are dropped in the spring of the year; yet I believe better results are obtained if the heifers dropped in the early fall are kept for the herd. For calves dropped in the fall, nearly six months old when grass comes and are then large enough to withstand flies and other summer troubles and can make the best use of the grass. Spring calves do as well if kept in the stables during the first summer, for like children, they are subject to slight disorders, but although not serious should not be neglected.

THE WATER SUPPLY PROBLEM

How Shall It Be Pumped and Stored?

Those who choose to live beyond the town water supply must have their own water system, and this supply will come either from a stream, spring or a dug or driven well and will, in all probability, have to be pumped to a supply tank for distribution. If there is a never failing stream on the property with a sufficient fall a hydraulic ram may be used and is, in fact, the most economical way of pumping, for if properly installed it can be depended upon to do its own work continuously and with but little attention. The fall of water required to operate a ram is from two feet upward, and it will push water to a distance of 500 feet and elevate it thirty feet for every foot of fall.

Having no stream a driven well is safer to use than a shallow well (which draws its water from the upper strata of soil and may easily become contaminated), and a windmill will provide an inexpensive power, requiring only an occasional oiling, painting and greasing. The windmill, but, as the latter is unreliable, be sure to provide a generous sized tank.

Different Kinds of Engines.

There are several kinds of engines for pumping water. The hot air engine is built especially for such work and has no superior (except the electric pump where the current is cheap) and is economical to operate, the fuel being either coal or kerosene. Gasoline engines can, of course, be put to many different uses, among them pumping water. They come in all sizes and, like the gas engine, are economical to operate. On farms where a gasoline engine is in demand a portable one may be purchased and, when needed for pumping, belted to the pump by a shaft and pulley. The pump in this case should be placed in a small house over the well.

The electric pump has the advantage of starting and stopping automatically—a decided point in its favor when used in connection with air pressure water storage tanks. There are four

ways of storing water in general use; in tanks of wood, which are inexpensive, but should not be allowed to become empty or they will shrink; in steel or concrete tanks set on steel or concrete supports (the former must be kept painted and are expensive to erect, the latter are also expensive but last indefinitely); in reservoirs, only used when there is a hill or to supplement a tank, and in air pressure tanks, which when installed in the cellar with the pump attached, give little or no trouble and are inexpensive and convenient to maintain.

THE SUMMER RANGE.

The Growing Pullet Appreciates Freedom.

PROF. H. R. LEWIS.

New Jersey Agri. Experiment Station.

Of all the problems confronting poultrymen the successful rearing of growing stock is the most vital. The question is one of inducing a continuous rapid development from hatching time to maturity.

Success depends upon giving growing pullets and cockerels ideal environmental conditions, such as an extended range, plenty of natural shade, fresh air houses and abundance of green succulent food material in addition to a well balanced grain ration. The growing range is ideal, being conducive to uniform and economical growth, with food material in the form of grubs, insects and green grass. The more range given the birds the more sanitary their surroundings, for the droppings will be well distributed and will more quickly leach into the soil. When necessary to confine growing stock during the summer the area available should be divided into two runs and each alternately seeded to green crops.

Shade Essential.

Adequate shade is also essential, giving protection against the rays of the sun, and a growing bush or tree is the best, as more moisture is present than where artificial shelters of boards or burlap are used. The orchard is a good place to rear pullets, and the cornfield is another portion of the average farm which furnishes ideal range. Sunflowers, corn, castor beans and soy beans are some annuals which can well be planted for shade, and peach, apple and plum trees make excellent, permanent shade. A constant supply of green food is necessary for the best development, and where birds are on free range there is usually plenty of greensward. Where on restricted areas crops, such as peas and oats, buckwheat, soy beans, rye, vetch and crimson clover, can be seeded to provide a continuous supply.

During hot summer months all the protection which chicks need are cheap shelters, relatively wide open, and with cool and well ventilated roof shelters, open in front and both sides, with provision for confining birds against enemies, is all that is necessary, and a shelter 6 by 8 feet will house fifty pullets to maturity.

The food supply should be determined by the condition of the range. A well balanced dry mash, kept in large hoppers, supplemented by corn and wheat (equal parts), fed broadcast morning and night with plenty of fresh water are the essentials for continuous growth and early maturity.

WHAT DOES THE CROP MEET?

An Experiment Plot Furnishes the Answer.

P. K. EDWARDS.

One way of solving the many interesting and puzzling problems in the soil and plant kingdom is by an experiment plot. Here light may be observed as to the natural peculiarities of soil, or the special effects of fertilizer on certain crops, or in what degree to supplement stable manure for fertilizer, or under what conditions the ambitious garden lover may obtain the most gratifying results for flowers and vegetables. In starting this miniature farm, then, use substantial stakes at the corners of the plot and mark them plainly 1, 2, 3, 4, 5, 6, leaving a space of two feet between each two plots to prevent the plants on one plot from stepping on the other. Make each plot 6 by 24 feet and plant the same crop on all the different plots. Take winter potatoes, for example. On plot 1 spread 10 pounds of dried blood and 15 pounds acid phosphate mixed (where the amount used is so small it can be distributed pretty evenly by mixing it with its weight in earth); on plot 2 spread 7½ pounds sulphate of potash and dried blood mixed; on plot 3 use no fertilizer; on plot 4 use 7½ pounds mixed; on plot 5 use 7½ pounds potash; 15 pounds acid phosphate and 10 pounds dried blood; and on plot 6 use only stable manure. Take great care not to sow any fertilizer on the spaces between the plots, and after the fertilizer has been spread harrow the plots thoroughly lengthwise.

Comparing the Plots.

The blank plot 3 must not in any way be overlooked or neglected, for with it are to be compared all the other plots in order to see just what have been the benefits derived from fertilizing. To make clear what such an experiment may teach, suppose, for instance, the yield on plot 3 where no fertilizer was applied, is represented by the number 100; the yield on plot 1 by the number 150; on plot 2, 160; on 4, 140; on 5, 175. With these numbers it is proved each of the three fertilizers is beneficial, for we observe that the yield on plot 5, where all the fertilizers were used, would not have been greater than on plots 1, 2, and 4, on each of which only two fertilizers were used. It is always of importance to keep a notebook, jotting down ev-

erything of interest concerning the plots (such as measuring each separate yield), and information gained soon enables the experimenter to buy the exact fertilizing elements necessary for his soil and crops and to mix and apply them in the proper proportions.

WILLIMANTIC

MOOSE MINSTRELS.

Big Floral Horseshoes Presented to Professor Johnson, Director.

The minstrel entertainment given under the auspices of Willimantic lodge, No. 1440, L. O. M., popularly known as the Moose minstrels, and under the personal direction of Prof. Samuel Johnson, the well known minstrel man and a member of the order, filled the Loomer opera house to capacity Wednesday night.

The stage was handsomely decorated in the colors of the order, red and white, with Japanese lanterns hanging from a bar in the center. A large moose head, kindly loaned for the occasion by Ray Harris of Windham, occupied the center of the background and was surrounded by a circle of red and white colored lights.

PART I.

When Sam Johnson himself was doing his dance stunt in the first part a large horseshoe of artificial flowers, being the insignia "To our colonel—Samuel Elias Johnson," was taken up to him as the gift of the Moose Guards, the Shadow regiment, so called, recently formed in Willimantic. The programme was as follows:

PART II.

Conversationalist, Frank P. Fenton; ends, Eddie Gilman, P. J. Minahan, Sam Johnson, Clem Hurdman, George Shepaum, Bill Drescher; medley of songs and dances; Do You Take This Woman for Your Lawful Wife, Bill Drescher; Suppose I Met You Face to Face, W. Worth; introducing the comedians, Bill Husey and Bill Paatz; Floating Down the River, Dr. W. K. Paatz; Funny Moon, Sam Johnson; Constaney, John F. Collins; Sit Down, You're Rocking the Boat, William Husey; The Song That Stole My Heart, Miss Mary, the comedians; The King of the first part with concert by Zozo's band; soloists, end men; Prof. Madame Shegalley, Jim Mahan.

Miss Cunningham at Hartford Hearing.

Miss Myrtle E. Cunningham of this city was in Hartford Tuesday attending the hearing held before Secretary of State Albert Phillips in the case of the suspension of licenses of automobile drivers. The case with which she was concerned was that of Dr. H. J. Thomas of New London, whose automobile collided with the car of Williams street in New London recently. Miss Cunningham had three witnesses present at the hearing, to testify Tuesday afternoon. Dr. Thomas was driving his car recklessly at the time. The doctor was not present. Decision was reserved in all the cases heard.

John Austin Gibson Wins Bay State Bride.

John Austin Gibson of this city, formerly of Whitinsville, Mass., who recently married in Blackstone, Mass., Miss Mary, the daughter of a prominent family, has returned with his bride from a trip to New York, Washington and Atlantic City, and has started home-keeping in the charming home of the new lodge of Elks in this city, and has many friends here. His bride was a popular young woman in her home town.

Librarian Ill.

Mrs. Bell B. Riggleson, city librarian, is confined to her home on Prospect street by illness.

Visits Schools.

Supervisor F. L. Tapley of Hartford, who has under his supervision some of the public schools in that vicinity, was a visitor at the Willimantic Normal school Wednesday.

Concrete Walks to Be Started Soon.

Joseph Morrissey of New Haven, who represents the concrete walking company of that city which was awarded the contract to build concrete sidewalks in Willimantic this year, was in this city Wednesday morning looking over the ground and conferring with the city authorities on the matter. Work will probably be begun on the walks early next week.

Norwich Teacher at Local Hospital.

Miss Helen Murphy of Norwich, who is under an operation for appendicitis this week, Miss Murphy is one of the Norwich Grammar school teachers and attended the Normal school in this city, graduating with the class of 1911.

The following Willimantic people spent Wednesday night at Mrs. Peter Hardman, Miss Elizabeth Hardman, James P. Mustard, Mrs. G. Hayden, Mrs. C. C. Edgerton, A. E. Story, Mrs. Charles Spaulding, William Gardner, H. T. Burr, Patrick Connolly, A. C. Hills spent Wednesday in Norwich.

Miss Lela Pitts of Hampton is visiting relatives in this city.

Mrs. E. A. Winter was in Danielson Wednesday, the guest of her sister.

Dr. G. W. May of Manchester called on friends in this city Wednesday.

J. O. Blanchette spent Wednesday in Putnam.

Miss Genevieve McCormick of Norwich called on friends in this city Wednesday.

Mrs. Alice Severy is visiting her sister, Mrs. Severy in Springfield.

F. W. Clapp was in Vernon Wednesday.

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ready on business.

A. N. Potter has returned to Ellington.

Vitriol Splashed About.

While unloading a carload of vitriol in the American Thread Co.'s mill yard one of the large glass jars broke and the acid streamed out causing excitement among the men who were working on the load.

Brief Mention.

G. W. Morrison was in Plainfield Wednesday.

Mrs. Charles Healey of Windham street spent Wednesday in Boston.

Miss Ella Thompson of New London spent Wednesday with her parents in this city.

Mrs. Lucy Byles Nelson, who has been in this city on business, returned Wednesday to her home in Wethersfield.

Harry Royce left on the 4:14 p. m. express for Hartford Wednesday to attend the performance of The Whip at Parson's theatre in the evening.

While the 3:15 train was at the local station Tuesday afternoon, a stranger who alighted from it placed his traveling case on the station platform. Amos Fowler of Bolivia street came along and, mistaking the case, fell over it and injured his arm.

Personal.

Mrs. George Walker spent Wednesday in Norwich.

A. T. Conroy of Taunton was in this city Wednesday on business.

Henry Carey of New London was a visitor at the home of his parents in this city.

Miss Beattie Donovan, who is a dietitian in a Boston institution, is visiting relatives here.

Arthur J. Doon, of Natick, Mass., who was formerly engaged in the grain and feed business in this city, spent Wednesday at the home of Arthur McQuillan, on Main street.

NORWICH TOWN

Home Missionary Meeting at the Chapel—Greetings from State President of H. M. A.—Recent Visitors.

The subject of the Home Missionary meeting Wednesday afternoon in the chapel of the First Congregational church, was Children of the Stranger in Our Gates. After a brief devotional service the minutes of the February meeting were read by the Secretary. Topics considered were: Importance of Caring for the Children; Contrast in the Educational Advantages of Foreign Children and those of America; Agents at Work Believing Condition; Settlement Life in the Crowded Part of Chicago; Schools; International College; Church Agencies.

Facts of interest brought out were: There are 400,000 settlements in our cities among the destitute and those handicapped in the race of life; the wonderful work of the Shaffer school through its graduates; statistics showing the great value of this work of help to those who have newly come to America. Allusion was made to the Baby Welfare Week, April 19 to 25 which aroused such enthusiasm in Chicago and the object of which was to increase the number of stations where mothers bring their babies for free treatment; each station being under the care of a prominent physician with competent nurses to go to the homes and see that instructions are carried out. Out of every thousand children treated last year at these stations 870 cases were saved. Mrs. H. L. Yerrington made a brief reference to the meeting Tuesday at Groton and brought greetings from Mrs. Williston Walker, New Haven, President of the State Home Missionary Union, whom she met there. The closing hymn was Saviour, In Thy Name. During the social hour which followed sandwiches, cake and fruit were served at small tables by Mrs. T. J. Watties and Mrs. O. B. Smith.

At Groton Meeting.

Those present from the First Congregational church at the County Conference of Churches held Tuesday in Groton were Mr. and Mrs. H. L. Yerrington and Miss Susan C. Hyde.

Briefs and Personal.

Mr. and Mrs. Louis Richmond moved last week from Mediterranean lane to the city.

Rev. Charles Smith, pastor of the Baltic Methodist Episcopal church, will preach Sunday afternoon at Scotland Road hall.

Mrs. H. N. Jones of Vergara avenue passed several days last week in Scotland, Mr. and Mrs. Scott returning with her for a visit of a day or two here.

Mr. and Mrs. H. N. Hansen, Jr. of West Willington were guests early in the week of Mrs. Hansen's sister, Mrs. Anthony Jacobson of Sturtevant avenue.

Capt. H. N. Jones and his sister Mrs. Fordham of Vergara avenue left Wednesday for Sag Harbor, Long Island, where Mrs. Fordham will spend a few weeks.

Mrs. C. H. Bushnell returned this week to her home on the West Side, Norwich, after two months' visit with her daughter, Mrs. F. G. Frothing of Vergara avenue.

Miss Luella Pierce was chosen delegate to the First Congregational

Bulletin Pointers

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DR. C. R. CHAMBERLAIN
Dental Surgeon
in charge of Dr. S. L. Geer's practice during his last illness.
McGregory Building, Norwich, Conn.

Sunday School to the convention of Trinity Methodist Episcopal church which meets in New London this (Thursday) afternoon and evening.

The foreign missionary society of Trinity Methodist Episcopal church meets this (Thursday) afternoon with the society of the First Methodist

church which is auxiliary to it in the vestry on West Town street. After the formal program a social hour will be enjoyed.

Ansonia.—Thomas Ashe of Dublin, Ireland, visited Ansonia Monday in the interests of the Gaelic league.

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MISS LUCILLA PIERCE WAS CHOSEN DELEGATE TO THE FIRST CONGREGATIONAL

CONFERENCE OF CHURCHES HELD TUESDAY IN GROTON WERE MR. AND MRS. H. L. YERRINGTON AND MISS SUSAN C. HYDE.

MR. AND MRS. LOUIS RICHMOND MOVED LAST WEEK FROM MEDITERRANEAN LANE TO THE CITY.

REV. CHARLES SMITH, PASTOR OF THE BALTIC METHODIST EPISCOPAL CHURCH, WILL PREACH SUNDAY AFTERNOON AT SCOTLAND ROAD HALL.

MRS. H. N. JONES OF VERGARA AVENUE PASSED SEVERAL DAYS LAST WEEK IN SCOTLAND, MR. AND MRS. SCOTT RETURNING WITH HER FOR A VISIT OF A DAY OR TWO HERE.

MR. AND MRS. H. N. HANSEN, JR. OF WEST WILLINGTON WERE GUESTS EARLY IN THE WEEK OF MRS. HANSEN'S SISTER, MRS. ANTHONY JACOBSON OF STURTEVANT AVENUE.

CAPT. H. N. JONES AND HIS SISTER MRS. FORDHAM OF VERGARA AVENUE LEFT WEDNESDAY FOR SAG HARBOR, LONG ISLAND, WHERE MRS. FORDHAM WILL SPEND A FEW WEEKS.

MRS. C. H. BUSHNELL RETURNED THIS WEEK TO HER HOME ON THE WEST SIDE, NORWICH, AFTER TWO MONTHS' VISIT WITH HER DAUGHTER, MRS. F. G. FROTHING OF VERGARA AVENUE.

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